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Copyright (c) 1993 - 2000 Compugen
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## ALIGNMENTS

RESULT AAW13552

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AAW13552 standard; Protein;

48 Ą

Human c-IAP2 repeat 3.

22-JUL-1997 AAW13552;

(first entry)

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Nucleic acids encoding cellular inhibitor of apoptosis proteins useful for apoptosis regulation in cells to reduce or increase apoptosis and for pharmacological screening
                                                           Goeddel DV,
                                                                                              08-DEC-1995;
08-AUG-1995;
                                                                                                                       06-AUG-1996;
                                                                                                                                                           WO9706182-A1
                                                                                                                                                                                            IAP; inhibitor; apoptosis; RING finger domain; restinosis;
myocardial infarction; nephritis; HIV.
                                                                            (TULA-) TULARIK INC.
                                                                                                                                          20-FEB-1997.
                                                                                                                                                                            Homo sapiens.
                                          1997-154209/14.
                                                           Rothe M;
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95US-0512946.
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The nucleic acid is used for recombinant prodo. of human cellular inhibitor of apoptosis protein which modulates apoptosis regulation. The nucleic acids are useful in therapies where increased cell-specific apoptosis is desired, e.g. in restinosis, inflammatory disease states, myocardial infarction, glomerular nephritis, transplant rejection and infectious diseases, e.g. HIV.
                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 48
Isolated protein homologues of viral inhibitors of apoptosis - to modulate apoptosis for treatment of degenerative, infectious
                         WPI; 1997-350966/32.
N-PSDB; AAT72712.
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                                                                                                                                                                                                                                                           cancer;
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                                                                                                                                                                                                                                                                                          Human inhibitor of apoptosis protein homologue MIHC
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Pred. No. 1.9e-29;
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                                                                                                                                                                                                 22-DEC-1995;
                                                                                                                                                                                                                                                                                                      WO9706255-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Apoptosis inhibitor; HIAP-1; HIV; AIDS; neurodegeneration; stmyelodysplastic syndrome; ischaemia; myocardial infarction; streperfusion injury; toxin-induced liver disease; gene therapy;
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                                                                                                           Korneluk RG,
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     n inhibitor of apoptosis polypeptide e.g. HIV or AIDS patients, and for c
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The human cellular inhibitor of apoptosis proteins (c-TAP1/2 - AAT61590/T61591) comprise a series of defined structural domain repeats and/or a RING finger domain; in particular, at least two of a first domain repeat (AAW13547 or AAW13549), a second domain repeat (AAW13550) and a third domain repeat (AAW13551 or AAW13551) or AAW13552) and/or a RING finger domain (AAW13553 or AAW13554), or a consensus
                                                                                                                                                                                                                                                              Nucleic acids encoding cellular inhibitor of apoptosis proteins useful for apoptosis regulation in cells to reduce or increase apoptosis and for pharmacological screening
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08-AUG-1995;
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                                                                                                                                                                                                        Disclosure; Page 21-23; 35pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IAP; inhibitor; apoptosis; RING finger domain; restinosis;
myocardial infarction; nephritis; HIV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (TULA-) TULARIK INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rothe M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ą,
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95US-0512946.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 294; DB 18;
Pred. No. 2.7e-28;
Mismatches 0;
                                                                                                                                                                                                           English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
apoptosis protein (IAP), and can be used in the method of the invention. The method is for enhancing apoptosis in cells from a mammal with proliferative disease by treatment with a compound that inhibits biological activity of an IAP or NAIP polypeptide. The inhibitory compounds are used to treat proliferative diseases, specially cancers of ovary, breast, pancreas, lymph nodes, skin, blood, lung, brain, kidney, liver nasopharnyx, thyroid,central nervous system, prostate, colon, rectum, cervix or endometrium, particularly to increase their sensitivity to chemotherapeutic agents. High levels of the IAP or NAIP proteins are detected in many cancers and are associated with poor prognosis, resistance to chemotherapeutic agents and mutations in p53 (it is suggested that wild-type p53 suppresses transcription of the IAP or NAIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequences derived from these human genes. The nucleic acid is used for recombinate prodn. of human cellular inhibitor of apoptosis protein which modulates apoptosis regulation. The nucleic acids are useful in therapies where increased cell-specific apoptosis is desired, e.g. in restinosis, inflammatory disease states, myocardial infarction, glomerular nephritis, transplant rejection and infectious diseases, e.g. HIV. They can also be used in conditions requiring a reduction in
                                                                                                                                                                                                                                                       Inducing apoptosis in proliferative mammalian cells with inhibitor of IAP or NAIP polypeptide - also methods for prognosis based on presence of IAP and NAIP, specifically applied to cancers involving
                                                                                                                                                                                                                                                                                                                                                               Tsang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Inhibitor of apoptosis proliferative disease;
                                                                                                                                                                                                                 Disclosure; Fig 2; 147pp; English
                                                                                                                                                                                                                                                                                                                     N-PSDB; AAV55039
                                                                                                                                                                                                                                                                                                                                                                             Baird
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                                                                                                                                                                                                                                                                                                                                                                             Korneluk R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    604
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; apoptosis enhancer; NAIP polypeptide;
IAP; therapy; cancer; human; HIAP-1 protein.
                                                                                                                                                                                                                                                                                                                                                                             Liston P,
                                                                                                                                                                                     HIAP-1 protein, which is a inhibitor of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          604
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                                                                                                                                                                                                                                                                                                                                                                             Mackenzie AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      294;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 18;
1.7e-28;
s 0;
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CC the expression of a target nucleic acid (tNA) sequence via binding of the compounds with the tNA sequence. The method comprises generating a cC library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual compounds with the tNA sequence. The method comprises generating a cC and evaluating in silico the binding of the virtual compounds with the tNA sequence via binding of the cons with the tNA sequence comprising generating a library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual one with the tNA according to defined criteria; and (2) a method of defining a set of compounds that modulate the expression of a tNA sequence via binding to the tNA. The method of defining a set of compounds that modulate the expression of a tNA sequence via binding of the compounds with the tNA. The methods can be used for the generation and identification of synthetic compounds having defined cc description of such compounds is used to identify nucleic acid sequences that a says of such compounds is used to identify nucleic acid sequences that a says of such compounds is used to identify nucleic acid sequences that a says of such compounds is used to identify nucleic acid sequences that a says of such compounds is used to identify nucleic acid sequences that a says of such compounds is used to identify and technologies, and any says of a such compounds of a compound sequence of a says of such compounds is used to identify nucleic acid sequences that a says of such compounds is a say to identify and target validation. Any says of the compounds is a says of such compounds is a say to a say the says and target validation. Any says of the compounds is a say to a say the says and target validation. Any says of the compounds is a say to a say the says and target validation.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-APR-1998;
28-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense oligonucleotide; phosphorothioate; target validation;
nucleotide sequence-based technology; antisense drug discovery.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 20; Page 197-202; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                properties, e.g. antisense activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying compounds which modulate expression of nucleic acids, used to provide compounds having defined physical, chemical or bioactive properties, e.g. antisease activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; AAZ41005
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identification; genetic target; gene modulation; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              273
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              604 AA;
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Pred. No. 2.7e-28;
Mismatches 0;
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Vickers TA;
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RESULT AAB50694 ID AAB

AAB50694 standard; Protein; 1141 AA

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RESULT
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Best Local S
Matches 48
                                                   Matches
                                                            Query Match
Best Local S
                                                                                                                                The invention provides antisense compounds of 8-30 nucleotides that inhibit the expression of human Cellular Inhibitor of Apoptosis-2 (C-IAP-2). The antisense compounds may be used for diagnostics, therapeutics (for modulating the expression of c-IAP-2), prophylaxis (e.g. to prevent or delay infection, inflammation, or tumor formation), as research reagents (e.g. to distinguish between members of a biological pathway) and in kits. The present sequence represents the human cellular inhibitor of apoptosis-2.
                                                                                                                                                                                                                                                                   Antisense compounds complementary to Cellular Inhibitor of useful for e.g. diagnostics, therapeutics, and as research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cellular Inhibitor of Apoptosis-2; antisense; c-TAP-2; prophylaxis; infection; inflammation
                                                                                                                                                                                                                                                                                                                                                                                          03-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY33997;
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                                                                                                            Sequence
                                                                                                                                                                                                                                            Example 13; Columns 45-50; 33pp; English.
                                                                                                                                                                                                                                                                                                                                           Bennett CF, Cowsert
                                                                                                                                                                                                                                                                                                                                                                  (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                 03-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human cellular inhibitor of apoptosis-2 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                273 peqlasagfyyvgnsddvkcfccdgglrcwesgddpwvqhakwfprce 320
               1 PEQLASAGFYYYGNSDDVKCFCCDGGLRCWESGDDPWVQHAKWFPRCE 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7
                                                                                                                                                                                                                                                                                                                   1999-561046/47.
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                                                   1 Similarity
48; Conser
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                                                                                                            604 AA;
                                                 100.0%; ilarity 100.0%; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present invention
                                                                                                                                                                                                                                                                                                                                            Ackermann
                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                 Score 294; DB 20;
Pred. No. 2.7e-28;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 294; DB 20;
Pred. No. 2.7e-28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; antisense; diagnostic; therapeutic;
inflammation; tumor formation.
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                                                   Indels
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                                                                           604;
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                                                                                                                                                                                                                                                                    Apoptosis-2 reagents -
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                                                    Gaps
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RESULT
AAW13551
ID AAW
XX
AC AAW
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DT 22-
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human: APT2-MLT chimera; chimeric: apoptosis inhibitor 2; MLT; APT2; mucosa-associated lymphoid tissue lymphoma associated translocation; chromosome 11 region q21-22.3; chromosome 18 region q21-1-22; molecular characterisation; chromosome translocation; carcinogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Determining if a tissue sample has a chromosome (11:18) translocation associated with malignancies by amplifying a nucleic acid sample using primers complementary to chromosome 11 region q21-22.3 and chromosome 18 region q21.1-22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
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                                22-JUL-1997
                                                                                    AAW13551;
                                                                                                                                         AAW13551 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 12; Fig 5; 47pp; English
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                                                                                                                                                                                                                                                                               273
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)B; AAC90972.
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                                                                                                                                                                                                                                                                                                                                                                                           48;
                                                                                                                                                                                                                                                                                                                                                                                  h 100.0%;
Similarity 100.0%;
48; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Marynen P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141
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                             (first entry)
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                                                                                                                                         Protein;
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                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                     Score 294; DB 22;
Pred. No. 5.4e-28;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1141;
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RESULT J
AAWO45 AW
XX AAW
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KW Inh
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The human cellular inhibitor of apoptosis proteins (c-IAP1/2 - AAT61590/T61591) comprise a series of defined structural domain repeats and/or a RING finger domain; in particular, at least two of a first domain repeat (AAW13547 or AAW13548), a second domain repeat (AAW13549 or AAW13550), and a third domain repeat (AAW13551 or AAW13552) and/or a RING finger domain (AAW1353 or AAW1354), or a consensus sequences derived from these human genes.

CC sequences derived from these human genes protein contains the protein of human cellular inhibitor of apoptosis protein which modulates apoptosis regulation. The nucleic acids are useful in therapies where increased cell-specific apoptosis is desired, e.g. in restinosis, increased cell-specific apoptosis is desired, e.g. in restinosis, comphritis, transplant rejection and infectious diseases, e.g. HIV.

They can also be used in conditions requiring a reduction in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   {\tt IAP;} inhibitor; apoptosis; RING finger domain; restinosis; myocardial infarction; nephritis; {\tt HIV.}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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     W09635703-A1
                                                                                                                                                                                                                          Human inhibitor of
                                                                                                                                                                                                                                                                               07-FEB-1997
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                                                          Homo sapiens
                                                                                                                                   rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                           AAW04583 standard;
                                                                                                                                         Inhibitor of apoptosis 1; hIAP-1; degenerative disease;
rheumatoid arthritis; septic shock; antiviral; trauma;
                                                                                                                                                                                                                                                                                                                                      AAW04583
                                                                                                                                                                                                                                                                                                                                                                                                                                               10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 PEQLASAGFYYVGNSDDVKCFCCDGGLRCWESGDDDWVQHAKWFPRCE 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              peqlasagfyyvgrnddvkcfccdgglrcwesgddpwvehakwfprce
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45; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             48
                                                                                                                 oncogenesis; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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95US-0512946.
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                                                                                                                                                                                                                          apoptosis gene 1.
                                                                                                                                                                                                                                                                                                                                                                                        Protein;
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                                                                                                                                                                                                                                                                                                                                                                                              438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 282; DB 18; pred. No. 5.8e-28; 2; Mismatches 1
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                                                                                                                 diagnosis; therapy
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Length Indels

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RESULT 1
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Matches 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human inhibitor of apoptosis 1 (hIAP-1) (AAW04583) is a protein useful for treating degenerative diseases, rheumatoid arthritis, septic shock, as an antiviral defence mechanism, and for preventing cell death during strokes or trauma. Its amino acid sequence was deduced from a cDNA clone (AAT43709) that can be obfrom human Jurkat cell lines or human osteoclastoma stromal cell lines. Recombinant hIAP-1 can be produced in prokaryotic or eukaryotic host cells, or expressed in vivo. It can also be use to screen for modulators of hIAP-1 activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Polynucleotide encoding human inhibitor of apoptosis gene 1 - useful for treating degenerative diseases, as antiviral defence mechanism and preventing cell death during trauma and strokes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       He WW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-MAY-1995;
                     03-JUL-1997.
                                                                             Region
                                                                                                                                                                                                    cancer; therapy; diagnosis.
                                                                                                                                                                                                               Inhibitor of apoptosis protein; IAD; mammalian IAP homologue; MIHB; degenerative disease; infectious disease; autoimmune disease;
                                                                                                                                                                                                                                                                                               AAW19746;
                                                                                                                                                                                                                                                                                                                    AAW19746 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 40-41; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1996-518608/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-NOV-1996
 20-DEC-1996;
                                             WO9723501-A1
                                                                                                  Region
                                                                                                                         Region
                                                                                                                                               Reg ion
                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                  Human inhibitor of apoptosis protein homologue MIHB.
                                                                                                                                                                                                                                                                         16-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                            107
                                                                                                                                                                                                                                                                                                                                          11
                                                                                                                                                                                                                                                                                                                                                                         1 Similarity 93.8
45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hudson PL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              438 AA;
                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95WO-US05922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95WO-US05922
96WO-AU00827
                                                                                                                         /label- BIR
184..250
                                                                                        /label- BIR
                                                                                                  /label⇔ BIR
269..337
                                                                                                                                                         ocation/Qualifiers
                                                                  'label= RING_finger
                                                                                                                                                                                                                                                                                                                    Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosen CA;
                                                                             .606
                                                                                                                                                                                                                                                                                                                                                                                                                                  95.9%;
93.8%;
                                                                                                                                                                                                                                                                                                                    618
                                                                                                                                                                                                                                                                                                                                                                                                                       2
                                                                                                                                                                                                                                                                                                                                                                                                                       Score 282; DB 17;
Pred. No. 6e-27;
2; Mismatches 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 438;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                can also be used
                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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RESULT
AAW1354
ID AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                      3545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               from a human foetal liver CDNA library using primers based on human EST sequences that resembled the BIR repeats of Orygia pseudotsuguta polyhedrosis virus IAP. IAP homologues (see also AAW19745 and AAW19747-52) and their derivatives and chemical analogues can be used in methods for modulating apoptosis in animal cells, specifically for treatment, by inhibition, of degenerative and infectious disease or, by promotion, of cancer and autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mammalian IAP homologue B (MIHB) (AAW19746) is a human hom baculovirus inhibitor of apoptosis protein (IAP). Its ami sequence was deduced from a cDNA clone (see also AAT72711)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vaux
Nucleic acids encoding cellular inhibitor of apoptosis proteins useful for apoptosis regulation in cells to reduce or increase
                                    WPI; 1997-154209/14.
N-PSDB; AAT61590.
                                                                                                                        08-DEC-1995;
08-AUG-1995;
                                                                                                                                                                                                                                                           IAP; inhibitor; apoptosis; RING finger domain; restinosis; myocardial infarction; nephritis; HIV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-350966/32
N-PSDB; AAT72711.
                                                                         Goeddel DV,
                                                                                                                                                            06-AUG-1996;
                                                                                                                                                                                     20-FEB-1997
                                                                                                                                                                                                            WO9706182-A1
                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                 Human c-IAP1.
                                                                                                                                                                                                                                                                                                                       22-JUL-1997
                                                                                                                                                                                                                                                                                                                                                 AAW13545;
                                                                                                                                                                                                                                                                                                                                                                       AAW13545 standard; Protein; 618 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 8; Page 51-54; 136pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune diseases and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated protein homologues of viral inhibitors of apoptosis - used to modulate apoptosis for treatment of degenerative, infectious or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AMRA-) AMRAD OPERATIONS PTY LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-DEC-1995;
                                                                                               (TULA-) TULARIK INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                    287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 93.8 tos 45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                 618 AA;
                                                                         Rothe M;
                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95AU-0007275
                                                                                                                         95US-0512946
                                                                                                                                     95US-0569749
                                                                                                                                                            96WO-US12860
                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              95,9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 282; DB 18;
Pred. No. 8.6e-27;
2; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 618;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Its amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                      334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         isolated
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RESULT 1
AAX33998
ID AAX33998
ID AAX33998
AC AAX3
AC AAX3
AC CAL1
CC L1
KW C-1L
KW C-1L
CX Home
XX US5:
PN US5:
PN US5:
XX Home
XX US5:
XX Home
XX US5:
XX Home
XX US5:
XX Home
XX N IS
XX A IS
XX B IS
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XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d first domain repeat (AAW13547 or AAW13548), a second domain repeat (AAW13549 or AAW13550), and a third domain repeat (AAW13551 or AAW13552) and/or a RING finger domain (AAW13553 or AAW13554), or a consensus sequences derived from these human genes.

The nucleic acid is used for recombinant prodn. of human cellular inhibitor of apoptosis protein which modulates apoptosis regulation. The nucleic acids are useful in therapies where increased cell-specific apoptosis is desired, e.g. in restinosis, inflammatory disease states, myocardial infarction, glomerular nephritis, transplant rejection and infectious diseases, e.g. HIV. They can also be used in conditions requiring a reduction in apoptosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The human cellular inhibitor of apoptosis proteins (c-IRP]/2 -
AAT61590/T61591) comprise a series of defined structural domain
repeats and/or a RING finger domain; in particular, at least two of
a first domain repeat (AAW13547 or AAW13548), a second domain repeat
inhibit the expression of human Cellular Inhibitor of Apoptosis-1 (c-IAP-1). The antisense compounds may be used for diagnostics, therapeutics (for modulating the expression of c-IAP-1), prophylax (e.g. to prevent or delay infection, inflammation, or tumor format as research reagents (e.g. to distinguish between machine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cellular Inhibitor of c-IAP-1; prophylaxis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclesure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         apoptosis and for pharmacological screening
                                                                                                                                                                                                                                                                         Antisense compounds complementary to Cellular Inhibitor of useful for e.g. diagnostics, therapeutics, and as research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US5958772-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY33998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAY33998 standard;
                                                                                                                                                                                                                     Example 13; Columns 41-46; 32pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
les 45; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -ب
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEQLASAGFYYYGNSDDVKCFCCDGGLRCWESGDDPWVQHAKWFPRCE 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          peqlasagfyyvgrnddvkcfccdgglrcwesgddpwvehakwfprce 334
                                                                                                                                                                                                                                                                                                                                                                                          1999-561047/47.
                                                                                                                                                                                                                                                                                                                                                                   AAZ22143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  618 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 18-20; 35pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cowsert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0205204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95.9%;
93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ĕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Apoptosis-1; antisense; diagnostic; therapeutic; infection; inflammation; tumor formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ackermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      apoptosis-1 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8.6e-27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 618;
                         members of a biological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                prophylaxis
                                                                                                                                                                                                                                                                            reagents
                                                                                                                                                                                                                                                                                                         Apoptosis-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
       Human XIAP, HIAP-1 and HIAP-2 and murine M-XIAP, M-HIAP-1 and M-HIAP-2 (AAM)9581-86) are a new class of mammalian proteins that are inhibitors of apoptosis (IAP) and which are characterised by the presence of a ring zinc finger domain (see also AAW)9587) and least one BIR (baculovirus IAP repeat) domain (see also AAW)9588). The HIAP amino acid sequences were deduced from cDNA clonnes (AAT70 and AAY70838) from a human liver library. IAP polypeptides can be expressed in host cells (in vitro or in vivo) and used in methods
                                                                                                                                     Nucleic acid encoding an inhibitor of apoptosis polypeptide to inhibit apoptosis in e.g. HIV or AIDS patients, and for of susceptibility to apoptotic disease
                                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                                    22-DEC-1995;
04-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             myelodysplastic syndrome; reperfusion injury; toxin-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human apoptosis inhibitor HIAP-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW19583 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pathway) and in kits. The present sequence represents the human cellular inhibitor of apoptosis-1.
                                                                                                                Claim 27; Page 75-77;
                                                                                                                                                                                      N-PSDB;
                                                                                                                                                                                                                        Baird
                                                                                                                                                                                                                                                                                                        05-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                     W09706255-A2
                                                                                                                                                                                                                                                                                                                                                                                       Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                     Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Apoptosis inhibitor; HIAP-2; HIV; AIDS; neurodegeneration;
                                                                                                                                                                                                                                              (UYOT-) UNIV OTTAWA.
                                                                                                                                                                                                                                                                                                                              20-FEB-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          287
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DB; AAT70838.
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                                                                                                                                                                                                                        Korneluk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              itic syndrome; ischaemia; myocardial infarction; st
injury; toxin-induced liver disease; gene therapy;
diseases and disorders involving apoptosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                    950S-0576956.
950S-0511485.
                                                                                                                                                                                                                                                                                                         96WO-IB01022
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers 46..113
                                                                                                                                                                                                                                                                                                                                                                                                                                      184..250
                                                                                                                                                                                                                                                                                                                                                                           /label= Ring_zinc_tinger
                                                                                                                                                                                                                                                                                                                                                                                                                        /label- BIR-2
                                                                                                                                                                                                                                                                                                                                                                                                                                               /label- BIR-1
                                                                                                                                                                                                                                                                                                                                                                                                  'label=
                                                                                                                                                                                                                        RG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95.9%;
93.8%;
                                                                                                                219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                  BIR-3
                                                                                                                                                                                                                       Liston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
Pred.
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                                                                                                                                                                                                                        Mackenzie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.6e-27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             infarction; stroke;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 618;
                                                                                                                                                     for detection
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                                                         and at
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RESULT 15
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                                                       CC apoptosis protein (IAP), and can be used in the method of the invention. CC apoptosis protein (IAP), and can be used in the method of the invention. CC The method is for enhancing apoptosis in cells from a mammal with CC proliferative disease by treatment with a compound that inhibits CC biological activity of an IAP or NAIP polypeptide. The inhibitory CC compounds are used to treat proliferative diseases, specially cancers of CC ovary, breast, pancreas, lymph nodes, skin, blood, lung, brain, kidney, CC liver nasopharnyx, thyroid,central nervous system, prostate, colon, CC rectum, cervix or endometrium, particularly to increase their sensitivity CC to chemotherapeutic agents and are associated with poor prognosis, CC resistance to chemotherapeutic agents and mutations in p53 (it is suggested that wild-type p53 suppresses transcription of the IAP or NAIP CC genes). Transgenic animals are used for testing the effects of antisense CC oligonucleotides and for screening for the inhibitors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Baird S,
Tsang B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inducing apoptosis in proliferative mammalian cells with inhibitor of IAP or NAIP polypeptide - also methods for prognosis based on presence of IAP and NAIP, specifically applied to cancers involving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inhibitor of apoptosis proliferative disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human diagnosed as HIV-positive or as having AIDS, a neurodegenerative disease, a myelodysplastic syndrome or an ischaemic injury, seleted from myocardalal infarction, stroke, reperfusion injury, or a toxin-induced liver disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Fig 3; 147pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1998-467164/40.
N-PSDB; AAV55040.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9835693-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human HIAP-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW69296 standard; Protein; 618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW69296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     p53 mutations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYOT-) UNIV OTTAWA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    287 peqlasagfyyvgrnddvkcfgcdgglrcwesgddpwvehakwfprce 334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 PEQLASAGFYYYGNSDDVKCFCCDGGLRCWESGDDDWVQHAKWFPRCE 48
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Korneluk R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         618 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-0800929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-IB00781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein; apoptosis enhancer;
IAP; therapy; cancer; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Liston P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 270; DB 18;
Pred. No. 2.6e-25;
2; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mackenzie AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pratt C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAIP polypeptide;
HIAP-2 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 610;
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Sequence

618 AA;

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                         Matches
                                Query Match
Best Local :
1 PEQLASAGFYYYGNSDDVKCFCCDGGLRCWESGDDPWVQHAKWFPRCE
                                 Similarity
                         Conservative
                                91.8%;
91.7%;
                         2;
                                Score 270;
Pred. No. 2
                         Mismatches
                               DB 19;
.6e-25;
                          ν,
                                        Length
                          Indels
        48
                                          618;
                          0;
                        Gaps
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Search completed: January Job time: 173 sec 7, 2002, 15:40:14

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287 peqlasagfyyvgrnddvkcfgcdgglrcwesgddpwvehakwfprce

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